<110> Wilganowski, Nathaniel L.
      Nepomnichy, Boris
      Burnett, Michael B.
      Hu, Yi

<120> Novel Human Transporter Proteins and Polynucleotides Encoding the
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<150> US 60/275,009
<151> 2001-03-12

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        35                  40                  45
Leu Gly Cys Ser Val Glu Ile Arg Lys Leu Trp Ser His Ile Arg Arg
    50                  55                  60
Pro Trp Gly Ile Ala Val Gly Leu Leu Cys Gln Phe Gly Leu Met Pro
65                  70                  75                  80
Phe Thr Ala Tyr Leu Leu Ala Ile Ser Phe Ser Leu Lys Pro Val Gln
                85                  90                  95
Ala Ile Ala Val Leu Ile Met Gly Cys Cys Pro Gly Gly Thr Ile Ser
            100                 105                 110
Asn Ile Phe Thr Phe Trp Val Asp Gly Asp Met Asp Leu Ser Ile Ser
        115                 120                 125
Met Thr Thr Cys Ser Thr Val Ala Ala Leu Gly Met Met Pro Leu Cys
    130                 135                 140
Ile Tyr Leu Tyr Thr Trp Ser Trp Ser Leu Gln Gln Asn Leu Thr Ile
145                 150                 155                 160
Pro Tyr Gln Asn Ile Gly Ile Thr Leu Val Cys Leu Thr Ile Pro Val
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Ala Phe Gly Val Tyr Val Asn Tyr Arg Trp Pro Lys Gln Ser Lys Ile
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Ile Leu Lys Ile Gly Ala Val Val Gly Gly Val Leu Leu Leu Val Val
        195                 200                 205
Ala Val Ala Gly Val Val Leu Ala Lys Gly Ser Trp Asn Ser Asp Ile
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Thr Leu Leu Thr Ile Ser Phe Ile Phe Pro Leu Ile Gly His Val Thr
225                 230                 235                 240
Gly Phe Leu Leu Ala Leu Phe Thr His Gln Ser Trp Gln Arg Cys Arg
                245                 250                 255
Thr Ile Ser Leu Glu Thr Gly Ala Gln Asn Ile Gln Met Cys Ile Thr
            260                 265                 270
Met Leu Gln Leu Ser Phe Thr Ala Glu His Leu Val Gln Met Leu Ser
        275                 280                 285
Phe Pro Leu Ala Tyr Gly Leu Phe Gln Leu Ile Asp Gly Phe Leu Ile
    290                 295                 300
Val Ala Ala Tyr Gln Thr Tyr Lys Arg Arg Leu Lys Asn Lys His Gly
305                 310                 315                 320
Lys Lys Asn Ser Gly Cys Thr Glu Val Cys His Thr Arg Lys Ser Thr
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Ser Ser Arg Glu Thr Asn Ala Phe Leu Glu Val Asn Glu Glu Gly Ala
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tcccatttca gggagtttct tctgggggtt aacataacgt atcaatgagc tgccttgtat     1560
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gaagaaacca tccttgtaag ttcaagctac gaaaataaac ggcctaattc cagccacctc      180
tttgtgaaaa tagaagatcc taaaatacta cataaatctg gtgactgatg aagaaggaga aacaaatgtg      300
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        35                  40                  45
Ser Tyr Glu Asn Lys Arg Pro Asn Ser Ser His Leu Phe Val Lys Ile
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Glu Asp Pro Lys Ile Leu Gln Met Val Asn Val Ala Lys Lys Ile Ser
65                  70                  75                  80
Ser Asp Ala Thr Asn Phe Thr Ile Asn Leu Val Thr Asp Glu Glu Gly
            85                  90                  95
Glu Thr Asn Val Thr Ile Gln Leu Trp Asp Ser Glu Gly Arg Gln Glu
            100                 105                 110
Arg Leu Ile Glu Ile Lys Asn Val Lys Val Lys Val Leu Lys Gln
        115                 120                 125
Lys Asp Ser Leu Leu Gln Ala Pro Met His Ile Asp Arg Asn Ile Leu
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Met Leu Ile Leu Pro Leu Ile Leu Leu Asn Lys Cys Ala Phe Gly Cys
145                 150                 155                 160
Lys Ile Glu Leu Gln Leu Phe Gln Thr Val Trp Lys Arg Pro Leu Pro
            165                 170                 175
Val Ile Leu Gly Ala Val Thr Gln Phe Phe Leu Met Pro Phe Cys Gly
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Phe Leu Leu Ser Gln Ile Val Ala Leu Pro Glu Ala Gln Ala Phe Gly
        195                 200                 205
Val Val Met Thr Cys Thr Cys Pro Gly Gly Gly Gly Gly Tyr Leu Phe
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Ala Leu Leu Leu Asp Gly Asp Phe Thr Leu Ala Ile Leu Met Thr Cys
225                 230                 235                 240
Thr Ser Thr Leu Leu Ala Leu Ile Met Met Pro Val Asn Ser Tyr Ile
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Tyr Ser Arg Ile Leu Gly Leu Ser Gly Thr Phe His Ile Pro Val Ser
        260                 265                 270
Lys Ile Val Ser Thr Leu Leu Phe Ile Leu Val Pro Val Ser Ile Gly
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Ile Val Ile Lys His Arg Ile Pro Glu Lys Ala Ser Phe Leu Glu Arg
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Ile Ile Arg Pro Leu Ser Phe Ile Leu Met Phe Val Gly Ile Tyr Leu
305                 310                 315                 320
Thr Phe Thr Val Gly Leu Val Phe Leu Lys Thr Asp Asn Leu Glu Val
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Ile Leu Leu Gly Leu Leu Val Pro Ala Leu Gly Leu Leu Phe Gly Tyr
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Ser Phe Ala Lys Val Cys Thr Leu Pro Leu Pro Val Cys Lys Thr Val
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Ala Ile Glu Ser Gly Met Leu Asn Ser Phe Leu Ala Leu Ala Val Ile
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4

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